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SE423

HowTo Document

Lab1:

- Downloaded CoolTerm for Mac
    - Must connect to proper port and clear the data afterwards to use
- Imported files into my local desktop using git on terminal
    - Git clone, git pull, etc.
- Set CCS workspace to the workspace within the local SE423 folder on desktop

Lab2:

- Adding variables to watchlist by right clicking on the variable and selecting add to watch list
    - Allows easy access to variable's value overtime
- Add breakpoints to code by clicking on the left of the code on the gray bar
    - Stops code at the break points to check for errors

Lab3:

- Learned how to set up registers to control various variables
- Learned how to use the pinmux tables to change between GPIO and EPWM registers
- Set up equations to control duty cycles for the servo and RC motors

Lab4:

- Learned how to set up interrupts for different channels
- Learned how to use tables to figure out the group and numbers for specific interrupts
- Learned how to scope frequencies using the signal generators
- Created different filters in matlab and tested them on the segbot.

Lab5:

- Learned how to set up SpibRegs
- Soldered the DAN28027 board so that we could communicate with it during lab
- Communicated with MPU9250 to print accelerometer and gyro readings